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OM nucleic - nucleic search, using sw model

Run on: August 4, 2003, 12:21:43 ; Search time 90 Seconds
 (without alignments)
 8430.418 Million cell updates/sec

Title: US-10-082-894-1

Perfect score: 1719

Sequence: 1 gtttattaccaaggtttgaaaaaaaaatttataaaaattt 1719

scoring table: IDENTITY_NUC
 Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_NA:
 1: /cgn2_6/podata/2/1na/5A_COMB.seq:
 2: /cgn2_6/podata/2/1na/5B_COMB.seq:
 3: /cgn2_6/podata/2/1ra/6A_COMB.seq:
 4: /cgn2_6/podata/2/1ra/6B_COMB.seq:
 5: /cgn2_6/podata/2/1ra/6C_PCTUS_COMB.seq:
 6: /cgn2_6/podata/2/1ra/backfiles.seq:
 *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description	
1	295.8	17.2	1566	4	US-09-328-352-1297	Sequence 1297, App	Sequence 1297, App	
c	284.8	16.6	580073	4	US-08-945-528D-1	Sequence 1, App1	Sequence 1, App1	
c	3	151.2	15.8	1554	4	US-09-134-001C-2607	Sequence 2607, App	Sequence 2607, App
c	4	153.2	8.9	1557	4	US-09-252-991A-6320	Sequence 6920, App	Sequence 6920, App
c	5	153.2	8.9	1590	4	US-09-252-991A-6224	Sequence 6824, App	Sequence 6824, App
6	105.4	6.1	741	4	US-09-952-991A-6774	Sequence 6774, App	Sequence 6774, App	
7	95.2	5.5	2094	3	US-08-714-918-87	Sequence 87, App1	Sequence 87, App1	
8	95.2	5.5	2094	3	US-09-765-315-87	Sequence 87, App1	Sequence 87, App1	
9	95.2	5.5	2094	3	US-09-965-315-87	Sequence 87, App1	Sequence 87, App1	
10	95.2	5.5	2094	3	US-09-966-417-87	Sequence 87, App1	Sequence 87, App1	
c	11	81.4	4.7	484	3	US-08-975-762-34	Sequence 34, App1	Sequence 34, App1
c	12	81.4	4.7	484	3	US-08-921-324-34	Sequence 34, App1	Sequence 34, App1
c	13	81.4	4.7	484	3	US-09-995-028-34	Sequence 34, App1	Sequence 34, App1
c	14	81.4	4.7	484	4	US-09-106-582-34	Sequence 34, App1	Sequence 34, App1
c	15	39.8	2.3	2861	4	US-09-998-398A-55	Sequence 55, App1	Sequence 55, App1
16	39.8	2.3	2861	4	US-09-987-586A-55	Sequence 55, App1	Sequence 55, App1	
17	39.8	2.3	2861	4	US-09-895-732-55	Sequence 55, App1	Sequence 55, App1	
18	39.8	2.3	2861	4	US-09-903-012B-55	Sequence 55, App1	Sequence 55, App1	
19	37.8	2.2	521	4	US-09-669-751-138	Sequence 138, App1	Sequence 138, App1	
c	20	37.8	2.2	864	4	US-09-661-138-85	Sequence 85, App1	Sequence 85, App1
c	21	37.4	2.2	1329	4	US-09-134-001C-196	Sequence 196, App1	Sequence 196, App1
22	36.6	2.1	3093	6	5231168-1	Patent No. 5231168	Patent No. 5231168	
23	36.4	2.1	1557	4	US-09-134-001C-1614	Sequence 1614, App1	Sequence 1614, App1	
24	36.2	2.1	319808	4	US-09-579-409-1	Sequence 1, App1	Sequence 1, App1	
25	36.2	2.1	1664976	4	US-08-916-421B-1	Sequence 1, App1	Sequence 1, App1	
c	26	36.2	2.1	1664976	4	US-08-916-421B-1	Sequence 1, App1	Sequence 1, App1
c	27	36	2.1	729	3	US-08-998-416-1031	Sequence 1031, App1	Sequence 1031, App1

ALIGNMENTS

RESULT 1						
US-09-328-352-1297						
; Sequence 1297, Application US/09328352						
; Patent No. 6562958						
; GENERAL INFORMATION:						
; APPLICANT: Gary L. Breton et al.						
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER						
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS						
; FILE REFERENCE: GTC99-03PA						
; CURRENT APPLICATION NUMBER: US/09/328-352						
; CURRENT FILING DATE: 1999-06-04						
; NUMBER OF SEQ ID NOS: 8252						
; SEQ ID NO 1297						
; LENGTH: 1566						
; TYPE: DNA						
; ORGANISM: Acinetobacter baumannii						
; US-09-328-352-1297						
Query Match						
Best Local Similarity						
Matches 702; Conservative						
Score 295.8; DB 4;						
DB 8; 3e-72;						
Mismatches 547; Indels 18; Gaps 6; 6;						
Qy	178	GCTCTTCATGTGGATTGCCAGAGGCCTTAATGGAAATTCTGAACTTGGCAATTGAAATT	237			
Db	178	GTTGAATGGTTTACCGATGTTACCGATGTTACCAAGACTCACAGTATTGGCTGTTAACGAA	237			
Qy	238	ATAGGAGCTGGAGAGTTATTATCAAGATATGGTCGAATTATGGCTGTTAACGAA	297			
Db	238	CTGGCCCTGGCGACTGTATACCAAGACTCACAGTATTGGCTACTCTACT	297			
Qy	298	AACGAGTTGTTACAAATCCAGTATTGTGGCATAGCTGAGGTGCAAAGAGGGGT	357			
Db	298	GTCGCTTTCCTTGAGCAGCAAGTATTGGTTGAGCTGTTAGTAACTGAGGGGT	357			
Qy	358	GTCGATTGCAATTATGGGCCTACTCTGAGGGGGTCAACGAGATCAT	417			
Db	358	GTCGAGTTGCAATTATGGGCCTACTCTGAGGGGGTCAACGAGATCAT	417			
Qy	418	CTTTTGGTGTGATAAGTCATTTCAATTCAAGTGGCAAAGGGTTTCACTT	477			
Db	418	ATGTGGCCTT-GATGTGGTAACTTGGCTTAAAACCGGGTGGCAAAGGTTTACTACATGCA	474			
Qy	478	TGTCGATGATGGTGTGAGTACTGGCAACAGTGGAGCTGTGTATCTGAAACTCT	537			
Db	475	TGCTCTGATGGCGTGTGACATCCTCCAGTAGTGTGTCACCTGAAATTAATGAG	534			
Qy	538	CATTTATTCGCTT-TGGAAAGTACGGAGATTGGCTACTATTCTGGAGCTTATT	594			
Db	535	GCTTTATTCGCTTAAATTCGGACCAAGGCCATTGGCAACATGATGGCTATT	594			

PRIOR APPLICATION NUMBER: US 08/488,018
 PRIORITY FILING DATE: 1995-06-07
 PRIOR APPLICATION NUMBER: US 08/473,545
 PRIORITY FILING DATE: 1995-06-07
 NUMBER OF SEQ ID NOS: 1
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 1
 LENGTH: 580073
 TYPE: DNA
 ORGANISM: Mycoplasma genitalium
 US-08-545-528D-1

	Query Match	Score	DB	Length
	Best Local Similarity	16.6%	4	580073;
	Matches	52.4%	67	Prod. No. 1..3e-67;
	Conservative	0;	Mismatches	24;
			Indels	Gaps 5;
QY	38 ATGTCACAAAAGTCTGTCTGTATTGGACAAACTTG	97		
Db	537565 ATATGCATAAAAAGTTATGCAATCCCTGATGGATACAAAC	97		
QY	98 ACGGGAATGCAATTGCTAAAGCTPAAAGGCCATTATGGACAAACTTG	154		
Db	537505 ATGGTAATGCGATCACAAATGCCAACATTCATGATGAAATTAACTCATATC	154		
QY	155 ATGGCAAAAATGGAACACGGTCTATGGTGGATGGCAAGGCTTAATGGGA	214		
Db	537445 CTGGTGACTTATAGTCATCTGGGAAGCAGTGTGGCTATGGTCATAATGGTA	214		
QY	215 ATTCGTGAATGGCACATTGAAATAGCTGAAAGAGTTATTATGAAAGATTGTC	274		
Db	537385 ACTCTGAGTAGGTCTATCTAAATATGGGCAAGTGTGGACTTCUT	274		
QY	275 GAAATTATGGCTGTCAACGAACGAGTTGTTACAATCTCAGAATGTTGCGATCAG	334		
Db	537325 TGATTAATCAACATTAAGGATCTGATTTGGAAATAAAGCTTTTAAACCA	334		
QY	335 CTGAGCTGCAAAGGGAGTGGTGTGATGCTTACAAATCTCAGAATGTTGCGATCAG	394		
Db	537265 TAGAACATGTAGAAARACCATCAAAATCCATTATTTGGTAAATGGG	394		
QY	395 GRTGCCACTCTCATATGATCATCTTGCCTGATAGCTGCTTAAACAAATTACAG	454		
Db	537205 GAGTGCATAGTCATAATGACATCTAGCTGACTCATGTTGTTGTT	454		
QY	455 TGCCAAGGTTCTCATCTACTTGTGATGTTGCGGAAACAGTGGAG	514		
Db	537151 ATGCAAAAGTAGTACATTGATGTTGATGTTGAGATGTTGAA	514		
QY	515 CTTGGTATCTGACAACTCTCTCAATTATGCTGAGATACTTCGCGAACAGTGGAT	574		
Db	537091 AACAGAGTCTTGAACATTGATGTTGATGTTGTTGAA	574		
QY	575 CTATTACTGGCAATTGTTGATGAACTGATGGGAGTAAAGATGGGATTAAGATGG	634		
Db	537031 CTATTCGGGAAGATACTGGATGCTGAAATTCTCAATTATGCTGTTG	634		
QY	635 CTATGAGGCAATTGTTGAGGCGATATGCTGACATCTGAGAATTGCGAT	688		
Db	536971 CTATAAAAGCTTATAGGAGTTCAAAATAATCTCAATGCCCCATTGAT	688		
QY	689 TCGATGTTGAGGCGATATGCTGACATCTGAGAATTGCGAT	748		
Db	536911 AAACGCCATATGCAACAAATTACTGATGAAATTCTGCAATTATGCGCAATT	748		
QY	749 TTTCCTGGACCTGATGCTCAATTGTTGAACTTAAAGATGCGACTCTTATTCTGCTCAATTATGCGAT	808		
Db	536851 TAAATCTGATCATGTTGCAATTAAACATAATGCGATTTGATCCTG	808		
QY	809 CTGATGCTGATGCTCAATTGTTGAACTTAAAGATGCTCAATTATGCGAT	868		
Db	536791 CTGATGAGCAGACAAATGTCCTTAAACGCAATTATGCGAT	868		
QY	869 GTTGGTTCTCCTACCCCTAAATTCAGATTAGTGGGATGCCCCATACAATAAAGACT	928		

RESULT 2
 Sequence 1, Application US/08545528D
 Patent No. 653773
 GENERAL INFORMATION:
 APPLICANT: Fraser et al.
 TITLE OF INVENTION: Nucleotide Sequence of the Mycoplasma Genitalium Genome, Fragment
 PATENT NO.: 653773
 FILE REFERENCE: P1193P1
 CURRENT APPLICATION NUMBER: US/08/545,528D
 CURRENT FILING DATE: 1995-10-19

Db	536731	CTGAAATTGAAAGAAAATTATTTGTAAACAATGATAATTAGGGAAATTG 536672	QY	71 ATGGATGGGCCCTTCGATGAAACACGGGAATTGCTAAAGCTAAAGCCCTA 130
Qy	929	TTCATPTCCATCGTATTCCACCTGTACTCATCATACTATGCTGGAATTGCTTG 988	Db	71 ATGGTTGCAAAATCGAAAGTGACATGCAATGAGAACATTAACCTA 130
Db	536671	TACCTPAGCGAAATTGTTCTCCACCTCAACCCATAAAATAGCTCTGGAAATTG 536612	QY	131 TTATGGCAAACACTTGTGTTGGAAATTGGCAA--AAATGGAAAGCACGGTCTTCATG 187
Qy	989	CTTCCTAAGGGATTACTCAATTACTGTGGGAAACTGAAAGTACCTCATGTTACCT 1048	Db	131 ATTTCATGATGATATTATGAAAAATATCCATACACAAATAAGAACGTTAGATG 190
Db	536611	CTAATATAAATTGAACTGAAAGTCAAGTCTGGAAATTGCTACGTACTT 536552	QY	188 TTGGATTGCCAGAAGCTTAATGGGAAATTCTGAGTTGACATTGAAATTGAGCTG 247
Qy	1049	TCTTCCTTAATGGTGTCTGAGAAAGTCAAGTCAAGTGAAGAGCTGTATGGTCCGT 1108	Db	191 TAGGCTTCTCTGAAAGTCAAAATGGTAACTCGAGTAACTGAGTGCAG 250
Db	536551	TCTTTTGTGTTGAACTTCAAGTAAACAGATAATTCCTT 536492	QY	248 GAGACTTATTATCAGATAATTGTTGCAATTGGCTTAACGAAACGAGTTGCTG 307
Qy	1109	CACCAAAAGAAGTTGCTACATGATGTTAAACCCAGAACTGCTGGAGTTGCCG 1168	Db	251 GACGCATCGPATATCAAGTTAACCTGTTAAATGATGAAAGGGAGATTCT 310
Db	536491	CTTTAA--AACTTGTCTACATGATGTTAGCTCCCGAAATGCTGTTAACTG 536435	QY	308 TTACAAATCCCTAGATTGTTGCACTAGCTGAGCTGAGGGGAGTGGTCAATG 367
Qy	1169	AAAAAAATGGTCAGCAAAATGAGTCAGGAGCACTTGTGCAATTGGTGC 1228	Db	311 TGTATPACACTGTTAAACACTGTTAAAGACATGTTAAAGACATGGCTCTGC 370
Db	536534	ATGCACTACTGAAAGCTTA-----TAACCTTGACTGTTAAATTGCTA 536531	QY	368 ATTATTAGGACTGGTTAGGGATGGGNGGNCACUCCTCATGATCATTTTGCGT 427
Qy	1229	CTCCCTGACATGGTGGACATACTGTAATTGAAACTGCGCTCAAGCATGTCAGCTA 1288	Db	371 ATGTTATCGGATGTTGCTGATGGGTGTCAGCTATTGCTATAGCATCTATTGCT 430
Db	536580	ATCCCTGATGATGGTCATCTGGFAACTATCAACCTGGATTAAAGCCTGAAAGCAC 536321	QY	428 TGATACGGCATTTAAACAAATTACAAGTGGCAAAAGTTTICATTCATCTTTGCTGATG 487
Qy	1289	CTGACAGGGCAATTGGAAAGTATGAAAGCATGCCCAAACTTAAATGTTCTATGG 1348	Db	431 TTAAAGAATTGCTAAAGCAAGGATAGATAAAGTATGTCACGCTATTGATG 490
Db	536520	TGATGTTCAAAATTAAACGAATAGTTGTAAGCTTAATCAAAACTATTTT 536261	QY	488 GTCGAGATACTTGCCAAACAGTGGAGCTGTTATCTGACAACCTCTCTCATTTATG 547
Qy	1349	TCTACTCGATCATGGAAATGCTGAAAGATGTTGATGCTCCGGATGGTAGACTG 1408	Db	491 GTCGTGATGTGTTGATCAAAAATGCTTTGAAATATAGAGAAACTGAATAATTAA 550
Db	536260	TAACTCGAGATAATGGSAATGCGCTTACTGCTGTTCAAAACATTTGTTAAATCGA 1468	QY	548 CTTCGAAAAGTACCGGAAATTGGCFACTATTACTGGACCTTATTGTCATGGTATGGGG 607
Qy	1409	CACATACCTGGCAATTGTCGCCATTACTGCTGTTCAAAACATTTGTTAAATCGA 1468	Db	551 AGAAATTAGGTCTAGGSCCAATTGCGTTCTGTTCAAGCTTGTACAGTGT 610
Db	536200	ARCAACACTTAAATCTGTACATTGTACCTGTTAACTTAAATCAA 536141	QY	608 ACAAAAGATGGGAGGGTATTAAAGATGGCTTATGGCAATTGTTGAGGTATGGACAAA 667
Qy	1469	CT 1470	Db	611 ACAGCGCTTGGGATCTGAGGAAACGGCCATTAACTCTGTAATGCTAAGGCTCA 670
Db	536140	CT 536139	QY	668 AGGCCACCGTTGATAAGGCTGICGARGTTGTTAGAGCTGATGTCACTGAGACTG 727
Db			Db	671 CATTACTTCAGCTAAAGCAGCGTGTGAAGCTTAATTAAATGTTGCTGATGAAAT 730
QY			QY	728 ACGAATTCTGAAACCGGTTTGTGAGTAAAGATGCTACTGTTGGGACTACT 787
Db			Db	731 TGTGTCGAACCGTTTGTAGTGGCCAAAAGATGCT---GTGACGATGAGGCG 787
;	US-09-134-001C-2607	Sequence 2607 Application US/09134001C	QY	788 TTATTCTCTCMAATTATCGTGTGATCGTCAATTGCTAAATTTGTAATGTTGGGCTCTCG 847
;	FILE REFERENCE: GNC-007	GENERAL INFORMATION:	Db	788 TAATCTTTATAATTCGTCAGATGAGCGCTCAACTTCAGAAATCTTACTAATA 847
;	APPLICANT: Lynn Doucette-Stamm et al	TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS	QY	848 ACGTTATAAAAGATCTTAATAGTCGTTCCCTCCCTAAATAATTCGATAGTGGGA 907
;	FILE REFERENCE: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS	CURRENT APPLICATION NUMBER: US/09/131,001C	Db	848 ANGCCTTTGATGATGATAA---AGTGTGAAACTTATTCTAGCTACAT 901
;	CURRENT FILING DATE: 1998-08-13	PRIOR APPLICATION NUMBER: US 60/064,964	QY	908 TCAACCCATAATACATAAAGAGTTCCATTTCCTGAGTTCACCTGTGACTCAT 967
;	PRIOR FILING DATE: 1997-11-08	PRIOR APPLICATION NUMBER: US 60/055,779	Db	902 TACGAATAATATGAAATGAGTGTGAATTGTTGAAAGTTGACTTAATAATA 961
;	PRIOR FILING DATE: 1997-08-14	NUMBER OF SEQ ID NOS: 5674	QY	968 ATGTGCTTGTGCTGAATGGCTTCTCAAGGGATTACTCAATTTCACGTGGAAACTG 1027
;	LENGTH: 1554	LENGTH: 1554	Db	962 ATACAATGGTAAAGTGTGCTCAAGATAATGGCTTAACTGATTCGGTAAACTG 1021
;	TYPE: DNA	ORGANISM: staphylococcus epidermidis	QY	1028 AAGAGTATCCPCTGATGTTGCTACCTTCTTGTGTTAATGGTGTGAGAGTCATTCAGATGTTGANGGAG 1087
;	US-09-134-001C-2607	Best Local Similarity 51.4%; Pred. No. 5e-65; Indels 16; Gaps 5;	Db	1022 AAAGATTCACATGATGAACTTGTAGGTTGACATTTATGAGGTTGACGAAATGAGTTGANGGAG 1081
;	Query Match 15.8%; Score 271.2; DB 4; Length 1554;	Matches 759; Conservative 0; Mismatches 703; Indels 16; Gaps 5;	Qy	1088 AGAGCCTTGTGTGTCATGGTGTGCTACCAAGAGTGTGTTAAACCCAGAAA 1147
;	;	;	Db	1082 ACGTGCTGATGACATCGATCTGAGTCACTGATGTTAACTCATCTTAG 1138
;	12 CAAGTTGAGATGGCAAAATATCAACAAATGTCACACAAAAGTCTGCTT-GTAGTTATG 70	11 CAATTGTTAGAAGGTTGCCAAAATATGGCAAAACACCAACTGGCTTAATCATCTTAG 70	Qy	

RESULT 7
US-08-714-918-87
; Sequence 87, Application US/08714918
; GENERAL INFORMATION:
; APPLICANT: Benton, Bret
; APPLICANT: Lee, Ving J.
; APPLICANT: Malouin, Francois
; APPLICANT: Martin, Patrick K.
; APPLICANT: Schmid, Molly B.
; APPLICANT: Sun, Dongru
; TITLE OF INVENTION: STAPHYLOCOCCUS AUREUS ANTIBACTERIAL
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C., DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/714,918
; FILING DATE: September 13, 1996
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/009,102
; FILING DATE: December 22, 1995
; APPLICATION NUMBER: 60/003,798
; FILING DATE: September 15, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 222/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 87:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2094 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; Query Match Score 95.2; DB 3; Length 2094;
; Best Local Similarity 5.5%; Pred. No. 1.8e-16;

Matches 211; Conservative 0; Mismatches 194; Indels 0; Gaps 0;
Qy 196 CCAGAAGGCCCTTAATGGGAAATTCTGAAGTTGGACATTGAAATTGGAACT 1265
Db 1690 CCTGAAGCACAAATGGTAACTCAGAAGTTGGCATATGAATACTGGAGCTTCAGGTATC 1749
Qy 256 ATTATCAAGATAATTGTTGAAATTGTTGCGTTCACAGGATTTGTACAAAT 315
Db 1750 GTTATAAGGTTAACTCGAAATTCAGAACATTGAACTTGAAATTGGTCAACATGTTGAAAT 1809
Qy 316 CCTCAGATTGTTGCATCAGCTAGCGTCAAGAAGGGAGTGTCCATGCTTATTTGTTAATTTGCTGGAA 375
Db 1810 GATGTTTAATATAATGAAATGCAATGTCAGCTGAAATTCACATGATTACACATCTTT 1869
Qy 376 GGACTGGTTAGGGATGGTTCCACTCTCATATTGATCATCTTGTGTTGAACT 435
Db 1870 GCTTTATTGTCAGCTGGTGTACAGTCATACATTTGCTTGTGTTGAA 1929
Qy 436 GCATTTAACAAATTACAAGTGCACAAAGGTTTCATTCATTTTGCTGATGGTTCAGAGAT 495
Db 1930 CTTCGTTAAAAAAACAAAGTGTGAAGAAAGTTAGCTAGCATTATAGCCGGAC 1989
Qy 496 ACTTCGCCAACAGTGGCTGGTTATCTTGAAACTTCTTCATTATTGCTTGGAA 555
Db 1990 GTAGATCAAATCCGGTTGAAATACATCGAAGGACTGAAATTCATGAAATT 2049
Qy 556 AAGTACGGAGAATGGCTTACATTAATGACCTTATGCAAT 600
Db 2050 GGATTCGGTCATTTGCATCTGCTCGGTATGCTTATGCACT 2094
RESULT 8
US-09-265-315-87
Sequence 87, Application US/09265315
; Patent No. 6187541
; GENERAL INFORMATION:
; APPLICANT: Benton, Bret
; APPLICANT: Lee, Ving J.
; APPLICANT: Malouin, Francois
; APPLICANT: Martin, Patrick K.
; APPLICANT: Schmid, Molly B.
; APPLICANT: Sun, Dongru
; TITLE OF INVENTION: METHODS OF SCREENING FOR COMPOUNDS
; TITLE OF INVENTION: ACTIVE ON STAPHYLOCOCCUS AUREUS
; TITLE OF INVENTION: TARGET GENES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C., DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/714,918
; FILING DATE: September 13, 1996
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/009,102
; FILING DATE: December 22, 1995
; APPLICATION NUMBER: 60/003,798
; FILING DATE: September 15, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 222/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 87:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2094 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; Query Match Score 95.2; DB 3; Length 2094;
; Best Local Similarity 5.5%; Pred. No. 1.8e-16;

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/714,918
OPERATING SYSTEM: IBM P.C., DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/265,315
FILING DATE: March 9, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/714,918
FILING DATE: September 13, 1996
APPLICATION NUMBER: 60/009,102
FILING DATE: December 22, 1995
APPLICATION NUMBER: 60/003,798
FILING DATE: September 15, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.

REGISTRATION NUMBER: 32,327
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (213) 489-1600
 TELEX: (213) 955-0440
 INFORMATION FOR SEQ ID NO: 87:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2094 base pairs;
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-09-265-315-87

Query Match 5.5%; Score 95.2; DB 3; Length 2094;
 Best Local Similarity 52.1%; Pred. No. 1.8e-16;
 Matches 211; Conservative 0; Mismatches 194; Indels 0; Gaps 0;

Qy	196 CCGAAGGGCTTAATGGAAATTCTGGAGTGGACATTGAAATACTAGAGCTGGAAAGAGTT 255	Db	1690 CCTGAAGGACAATGGCTAACCTGAGGTGGTCAATGATGAAATCGTGAGGACTTC 1749
Qy	256 ATTATCAAGATATTGTCGATTAAATTGCTGTCAACAAACGAGTTGTTACAAAT 315	Db	1750 GTTATCAAAGTTAACTCGATCATATAATCAATGAAAGRCGGTCAATTCTGAAAT 1809
Qy	316 CCTCAGATTGGTGCATCACGCTGAGCTGAAAGAGGGAGTGGCATTGCAATTATA 375	Db	1810 GATGTTAAATGAAATGCAATTGACACGTGATTACATGATTCACGTTACACATCTT 1869
Qy	376 GGACTGGTAGCGATGGGTGTCGCCACTCICATATTGATCATCTTGGGTTGATACGT 435	Db	1870 GCTTATTGTCGACTGAGCTGGTCAACAGTCATTACAAACATTATTGCTTGTAGAA 1929
Qy	436 GCGATTAAACAAATTCAAGGCCAAGGTTTCATTCACACTTTCGCTGATGGTCGAGT 495	Db	1930 CTGCGTAAACAAACAGGTGTGAAAAAGTTACGTCACGCAATTAGTGGCCCTGAC 1989
Qy	496 ACTTCGCCAACAGTGGAGATTGGCTACTATTACTGGACGTTATTGCAATTCGAACTTCTCAATTATTGCTTCGGAA 555	Db	1990 GTAGATCAAATCCGGTTGAATACATCGAAAGAACCTGAGCTAAATTCAATGAAATA 2049
Qy	556 AAGTACGGAGATTGGCTACTATTACTGGACGTTATTGCAATTCGAACTTCTCAATTATTGCTTCGGAA 600	Db	2050 GGCATGGTCATTTGATCTGGCTTATTGATCTGGCTTATTGATGANT 2094

RESULT 9
 US-09-265-315-87
 ; Sequence 87, Application US/09265315
 ; Patent No. 6187541

GENERAL INFORMATION:
 ; APPLICANT: Benton, Bret
 ; APPLICANT: Lee, Ving J.
 ; APPLICANT: Malouin, Francois
 ; APPLICANT: Martin, Patrick K.
 ; APPLICANT: Schmid, Molly B.
 ; APPLICANT: Sun, Dongxu
 TITLE OF INVENTION: METHODS OF SCREENING FOR COMPOUNDS
 TITLE OF INVENTION: ACTIVE ON STAPHYLOCOCCUS AUREUS
 TITLE OF INVENTION: TARGET GENES
 NUMBER OF SEQUENCES: 111
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Lyon & Lyon
 STREET: 633 West Fifth Street
 STREET: Suite 4700
 CITY: Los Angeles
 STATE: California
 COUNTRY: U.S.A.
 ZIP: 90071-2066
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
 MEDIUM TYPE: storage

COMPUTER: IBM Compatible
 OPERATING SYSTEM: IBM P.C. DOS 5.0
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09-265,315
 FILING DATE: March 9, 1999
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/714,918
 FILING DATE: September 13, 1996
 APPLICATION NUMBER: 60/009,102
 FILING DATE: December 22, 1995
 APPLICATION NUMBER: 60/003,798
 FILING DATE: September 15, 1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Warburg, Richard J.
 REGISTRATION NUMBER: 32,327
 REFERENCE/DOCKET NUMBER: 240/247
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (213) 489-1600
 TELEFAX: (213) 955-0440
 TELEX: 67-3510
 INFORMATION FOR SEQ ID NO: 87:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2094 base pairs;
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-09-265-315-87

Query Match 5.5%; Score 95.2; DB 3; Length 2094;
 Best Local Similarity 52.1%; Pred. No. 1.8e-16;
 Matches 211; Conservative 0; Mismatches 194; Indels 0; Gaps 0;

Qy	196 CGAAAGCTTAATGGAAATTCTGGAGTGGACATTGAAATACTAGAGCTGGAAAGAGTT 255	Db	1690 CCTGAAGGACAATGGCTAACCTGAGGTGGTCAATGATGAAATCGTGAGGACTTC 1749
Qy	256 ATTATCAAGATATTGTCGATTAAATTGCTGTCAACAAACGAGTTGTTACAAAT 315	Db	1750 GTTATCAAAGTTAACTCGATCATATAATCAATGAAAGRCGGTCAATTCTGAAAT 1809
Qy	316 CCTCAGATTGGTGCATCACGCTGAGCTGAAAGAGGGAGTGGCATTGCAACGAGTTGTTACAAAT 375	Db	1810 GATGTTAAATGAAATGCAATTGACACGTGATTACATGATTCACGTTACACATCTT 1869
Qy	376 GGACTGGTAGCGATGGGTGTCGCCACTCICATATTGATCATCTTGGGTTGATACGT 435	Db	1870 GCTTATTGTCGACTGAGCTGGTCAACAGTCATTACAAACATTATTGCTTGTAGAA 1929
Qy	436 GCGATTAAACAAATTCAAGGCCAAGGTTTCATTCACACTTTCGCTGATGGTCGAGT 495	Db	1930 CTGCGTAAACAAACAGGTGTGAAAAAGTTACGTCACGCAATTAGTGGCCCTGAC 1989
Qy	496 ACTTCGCCAACAGTGGAGATTGGCTACTATTACTGGACGTTATTGCAATTCGAACTTCTCAATTATTGCTTCGGAA 555	Db	1990 GTAGATCAAATCCGGTTGAATACATCGAAAGAACCTGAGCTAAATTCAATGAAATA 2049
Qy	556 AAGTACGGAGATTGGCTACTATTACTGGACGTTATTGCAATTCGAACTTCTCAATTATTGCTTCGGAA 600	Db	2050 GGCATGGTCATTTGATCTGGCTTATTGATCTGGCTTATTGATGANT 2094

RESULT 10
 US-09-266-417-87
 ; Sequence 87, Application US/09266417
 ; Patent No. 6228588

GENERAL INFORMATION:
 ; APPLICANT: Benton, Bret
 ; APPLICANT: Lee, Ving J.
 ; APPLICANT: Malouin, Francois
 ; APPLICANT: Martin, Patrick K.
 ; APPLICANT: Schmid, Molly B.
 ; APPLICANT: Sun, Dongxu
 TITLE OF INVENTION: METHODS OF SCREENING FOR COMPOUNDS
 TITLE OF INVENTION: ACTIVE ON STAPHYLOCOCCUS AUREUS
 TITLE OF INVENTION: TARGET GENES
 NUMBER OF SEQUENCES: 111
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Lyon & Lyon
 STREET: 633 West Fifth Street
 STREET: Suite 4700
 CITY: Los Angeles
 STATE: California
 COUNTRY: U.S.A.
 ZIP: 90071-2066
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
 MEDIUM TYPE: storage

APPLICANT: Sun, Dongxu
; TITLE OF INVENTION: METHODS OF SCREENING FOR COMPOUNDS
; ACTIVE ON STAPHYLOCOCCUS AUREUS
; NUMBER OF SEQUENCES: 1111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/266,417
; FILING DATE: March 9, 1999
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/714,918
; FILING DATE: September 13, 1996
; APPLICATION NUMBER: 60/009,102
; FILING DATE: December 22, 1995
; APPLICATION NUMBER: 60/003,798
; FILING DATE: September 15, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 240/248
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEX: (213) 955-0440
; FAX: 67-3510
; INFORMATION FOR SEQ ID NO: 87:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2094 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-266-417-87

Query Match Score 95.2%; DB 3; Length 2094;
Best Local Similarity 52.1%; Pred. No. 1.8e-16;
Matches 211; Conservative 0; Mismatches 194; Indels 0; Gaps 0;

QY 196 CCAGAAGGCTTAANGGAAATTCTGAAGTGGACATTTGAAATAGGAGCTGGAAAGACT 255
Db 1690 CCTGAGGGACAATTGGTAACTAGAAGTGGTCATGAAATATGCCGAGCSPATC 1749
QY 256 ATTTATAAGATAATTGTCGAATAATTGGCTTGAAACGAAACGTTGTACAAAT 315
Db 1750 GTTTATCAAAAGTTAACCTGAACTAAATCAATTGAAAGCGTGTTCITGAAT 1809
QY 316 CCTCAGATTGTCATACCTGACCGTCAAAGGGGACTGGCATTTGCACTT 375
Db 1810 GATGTTAAATATGCAATTGCACTGAACTACATGATTCAGGTTACACATCTT 1869
QY 376 GGACTGGTAGGATGGGNGCTGCCACMCCTCATATTGATCAICCTTGGCGTTGATACGT 435
Db 1870 GGTTTATTCCTGAGGTGGTGTGACACAGTCATACAAACATTATTCGTTGTAAGA 1929
QY 436 GCATTAACTAACATTACAGTGCCTAAAGGTTTCACTTGTGCTGGAGAT 495
Db 1930 CTGCTAAAACAAAGGTTGAAAGAAGTTACGTACAGCTACGCAATTGCGGAC 1989
QY 496 ACTGGCCACAAGTGGACCTGGTATCTGAAACTCTCTCAATTATGGCTTCCGAA 555
Db 1990 GTAGATCCTAAATCCTGTTGAAATACTGAAAGACTGAAGCTAAATTCAATGAATTA 2049

Qy 556 AAGTACGGAGAAATTGGCTACTATTACTGGACGTTATTATGCAATG 600
Db 2050 GGATTTGGTCATTGCACTCTGCTGGTTATGGCTTATGGCTTATGGCANTG 2094
RESULT 11
US-08-975-762-34/c
; Sequence 34, Application US/08975762
; Patent No. 6207169
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Houghton, Raymond
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS AND
; NUMBER OF SEQUENCES: 73
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/975,762
; FILING DATE: 21-MAR-1997
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Mail, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.439
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-622-4900
; TELEFAX: 206-682-6031
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 484 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ORIGINAL SOURCE:
; ORGANISM: Ehrlichia
; US-08-975-762-34

Query Match Score 4.7%;
Best Local Similarity 53.4%; Pred. No. 5.9e-13;
Matches 244; Conservative 0; Mismatches 201; Indels 12; Gaps 3;
Db 446 ATTCGGATTGCGCTTCAGTCAGTCCGGAAATTCAGAATGGCCATAAAGTATGAGAT 387
Qy 185 ATTTGGATTGCGAGAAGGCTTAATGGAAATTCTGAATTTGACATTGAAATAGGAG 244
Db 446 ATTCGGATTGCGCTTCAGTCAGTCCGGAAATTCAGAATGGCCATAAAGTATGAGAT 387
Qy 245 CGGAAAGAGTTATTCTAAGATAATTGTTGCAAAATTGGCTGTCACGAAACGAGT 304
Db 386 GCGCAGGATAGTCGCTTCAGACCTGTTGAGAAATTCTGAGATT-----AATGAGG 333
Qy 305 TTTTACAAATCCCTGAGATTGTCAGCTGAGCTGTCAGGCTGAGCTTCTGAGCTGAT 364
Db 332 TCTACAGAAATCTTCAATGCTGAGCTTGTGCTGAGCTTGTGAGCTTCTGAGCTGAT 273
Qy 365 TGGATTTAGGACTGGTGGATGTTGCTGAGCTTGTGAGCTTGTGAGCTTCTGAGCTGAT 424
Db 272 GCGACAGATGGCTGCTGCTTCTGAGCTGAGCTTCTGAGCTTCTGAGCTGAT 213
Qy 425 CGTTGATACGTTGGATTAAACAAATTCAAGTGCACAAAGGTTTCACTCTTCTGCTG 484
Db 212 CCTATT---TGGGTATCACGGATTACGGTACATGAAATTCTGATGTTACATGATCTG 156

RESULT 14

US-09-106-582-34/c
; Sequence 34, Application US/09106582
; Patent No. 6306402
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Houghton, Raymond
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS AND THERAPY
; NUMBER OF SEQUENCES: 73
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATE:
; APPLICATION NUMBER: US/09/106,582
; FILING DATE: 29-JUN-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.439C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-522-4900
; TELEFAX: 206-682-6031
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 484 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ORIGINAL SOURCE:
; ORGANISM: Ehrlichia
; US-09-106-582-34

Query Match 4.7%; Score 81.4; DB 4; Length 484;
Best Local Similarity 53.4%; Pred. No. 5.9e-13;
Matches 244; Conservative 0; Mismatches 201; Indels 12; Gaps 3;

Db 98 AAATGGACCTTAATGCCGAAATTGCTACTGTGAGCGTACTATGCTATGGATA 39
Qy 605 GGGACAAAAGATGGCAGCCGTTAAGATGGCTTATGA 641
Db 38 GGATPATCGCTGATGGACATGTAAGCTTATGA 2

Db 212 CCATAT-TGAGTTATCACCGGATTGGCATCAAGGTTTATACATGTAATTCTAG 156
Qy 485 ATGGTCGAGATACTTCGCAACAGTGGCTGGTTATCTGACAACCTCTTAATTA 544
Db 155 ATGGTAGGGATTT--CCACCGCTTCGCTGAGAAGTATCGGTATGGCTAACGCTA 99
Qy 545 TTGCTTCGGAAGTACGGAAATGCTACTGGTATTATGCAATGGATA 604
Db 98 AAATGGACCTTAATGCCGAAATTGCTACTGTGAGCGTACTATGCTATGGATA 39
Qy 605 GGGACAAAAGATGGCAGCTATTAAGATGGCTATGA 641
Db 38 GGATAATCCCTGGATGGACATGTAANGCTTATGA 2

RESULT 15

US-09-398-395A-55
; Sequence 55, Application US/09398395A
; Patent No. 6468772
; GENERAL INFORMATION:
; APPLICANT: Chappell, Joseph P.
; APPLICANT: Starks, Courtney M.
; APPLICANT: Manna, Kathleen R.
; TITLE OF INVENTION: SYNTHRASES
; FILE REFERENCE: 07678-025001
; CURRENT APPLICATION NUMBER: US/09/398,395A
; CURRENT FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: 60/100,993
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/130,628
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/150,262
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 55
; LENGTH: 2861
; TYPE: DNA
; ORGANISM: Abies grandis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (3) ...(2606)
; OTHER INFORMATION: abietadiene synthase
; US-09-398-395A-55

Query Match 2.3%; Score 39.8; DB 4; Length 2861;
Best Local Similarity 53.5%; Pred. No. 0.38%;
Matches 83; Conservative 0; Mismatches 72; Indels 0; Gaps 0;

Db 1449 AACATTGTTGTTTAAATCAGTACCACTGGATGATGCCAAAGAACGAGCAGCAGC 1508
Qy 2177 AACAGTCGTTCTCATTTAGTGCTTTCAGATGAAATCTGC 2336
Db 1509 CTAGTGATGTTGCCACCTGTTCTAACATTATGGCTTACCTGTTACGGCGGAGAT 1568
Qy 2237 CAAATTGATGCCAATCTAGATTCACAGTGAATGCTTCACCTGTTACGGCGGAG 2286
Db 1569 GGATGGGTTCCCTTACPTGAAAGAGGATAAG 1603
Qy 2297 TGACACCAAACATTATCAGGAGAGGTCAG 2331

Search completed: August 4, 2003, 14:22:23
Job time : 97 secs

Db 332 TTCAAGAATCCAAATTGCTGACTGGTGGACTTGTGGACTTGTGGAT 273
Qy 365 TGCATTATAGGACTGGTTAGCCATGGTGGCTCCTCATATGATCATCTTTTG 424
Db 272 GCCACATGATGGCTGCTGCTTCATGGTGGAGSTGCACTTCAGGCGCACATGGAAA 213
Qy 425 CGTGTGATACGTGCAATTAAACAAATTACAAGTGCCAAGGTTTCATCAGTTTGTG 484